

still further embodiment of the invention; **FIG. 6**, which includes the sub-part **FIGS. 6A, 6B and 6C**, schematically shows display functionality of yet still one further embodiment of the invention;

[0017] **FIG. 7**, which includes the sub-part **FIGS. 7A, 7B and 7C**, schematically shows display functionality of a still further embodiment of the invention;

[0018] **FIG. 8**, which includes the sub-part **FIGS. 8A, 8B, 8C, 8D and 8E**, schematically shows display functionality of yet still one further embodiment of the invention;

[0019] **FIG. 9**, which includes the sub-part **FIGS. 9A, 9B and 9C**, schematically shows display functionality of a still further embodiment of the invention;

[0020] **FIG. 10**, which includes the sub-part **FIGS. 10A, 10B and 10C**, schematically shows display functionality of a still further embodiment of the invention; and,

[0021] **FIG. 11**, which includes the sub-part **FIGS. 11A, 11B and 11C**, schematically shows display functionality of yet still one further embodiment of the invention.

DETAILED DESCRIPTION OF THE INVENTION

[0022] **FIG. 1A** shows a preferred embodiment of a portable personal communication apparatus in an exemplar form of a mobile or a cellular phone **1**, hereafter also alternatively referred to as a handset or a wireless terminal **1**, which may be used for standard mobile telephony as well as for alternative functionalities according to the present invention as is described in some detail hereafter. The wireless terminal comprises a user interface which may include a keypad **2**, a display **3**, an on/off button **4**, a speaker **5** (only structural openings are shown), and a microphone **6** (only structural openings are shown), inter alia.

[0023] According to a first embodiment of the invention, the keypad **2** has a first group **7** of data entry buttons or keys as alphanumeric keys, two softkeys **8**, and a scroll-key **10** (up/down and/or right/left and/or any combination thereof) for moving a cursor in the display **3**. An alternative hereto may be a four-way button, an eight-way button or a joystick, track ball, roller or other cursor controller (none of which being shown here). Touch screen functionality could also be used. The functionality of the softkeys **8** (sometimes referred to as selectkeys) may be shown in a separate field in the bottom (or other area) of the display **3** just above the softkeys **8** (see the example in **FIGS. 3 and 4**, below). Furthermore the keypad may include one or more, or as shown here, two call-handling keys **9** for initiating and terminating calls, inter alia.

[0024] **FIG. 1B** schematically shows some of the more important parts of a preferred embodiment of a phone **1**. A processor **18**, which may preferably support GSM terminal software (or alternatives thereto), also controls the communication with a network via a transmitter/receiver circuit **19a** and an antenna **19b**. The microphone **6** receives the user's speech into analogue signals; the signals transmitted thereby are A/D converted in an A/D converter (not separately shown) before the speech is encoded in an audio processing part **14**. The encoded speech signal is transferred to the processor **18** which then provides for the encoded speech signal to be communicated via the transmitter/receiver **19a**

and an antenna **19b** to the network and the intended recipient. Going the other way, in receiving an encoded signal from the network via the transmitter/receiver **19a**, the audio part **14** speech-decodes the signal, which is transferred from the processor **18** to the speaker **5** via a D/A, converter (not separately shown).

[0025] The processor **18** may also form the interface to the keypad **2** and the display **3**, and a SIM card **16**, as well as preferably to a RAM memory **17a** and/or a Flash ROM memory **17b**, (and other possible devices for data, power supply, etc. (not separately shown)). The memory devices **17a** and/or **17b** may be used to store software applications and/or the data for use therewith. Particularly as may be applicable to the present invention, such software applications and/or data may include one or more of, inter alia, the software and/or data for an organizer and/or a contacts list, e.g., a phonebook, address book; call lists containing lists of calls made, received and/or missed; email and/or SMS software and/or email messages, SMS messages sent and/or received; a calendar for appointment or other calendaring data, as well as one or more other functionality applications, data and/or information, either in the form of one or more stored functional software applications and/or the data related to a particular functionality, as for example MP3 music files and an MP3 music player to play those files. Other mobile communication unit applications may include inter alia, MPEG-viewers (or other movie or audio/visual format viewers), or radio applications, a Gallery, or File manager, and/or a message handler that could show a preview of the message.

[0026] Implementation of one or more of such functionalities depends on the capabilities of the particular handset. As a first example, starting with a handset **10** which has one or more functionalities, at least one such functionality having at least one subordinate level of either functionalities or other selection opportunities for the user of the handset, a user interface (UI) hereof provides a simplified scheme for accessing such subordinate selections. In particular, this first example provides for merging the primary and subordinate or secondary levels of user selectable items/actions into one level. As presented for example in **FIG. 2**, see first **FIG. 2A**, a display **20** is shown with a number of application elements **22, 23, 24 and 25** (and potential unidentified others shown and/or unshown) in a vertical orientation here. Each of the application elements may be selectable items which may further have as shown here one or more subordinate elements or features, generally identified as elements **28**, extended horizontally across the display. Elements **28** may also be selectable. Each respective horizontal line of elements **28** corresponds to a respective application element **22-25** (etc.) as a grouping or assemblage of subordinate or secondary elements thereof. Thus, the horizontal elements are displayed in direct relationship to the respective horizontal grouping identifiers thereof.

[0027] Traditionally, application elements such as elements **22-25** would occupy an entire menu or screen display without any indication of the relative subordinate elements available thereunder (this being true regardless whether in list, grid or single main menu item display form). Then, to reach such subordinate elements, a user would first need to select a particular application element **22-25** and then be presented a secondary screen display (not shown) having presented there the available subordinate elements to be